

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES BOARD AND CODE ADMINISTRATION DIVISION MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Gulfstream Aluminum and Shutter Corporation 3001 SE Gran Park Way Stuart, Florida 34997

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Impact" Aluminum Bahama Shutter

APPROVAL DOCUMENT: Drawing # GSA001, titled "Aluminum Bahama Shutter (Impact)", sheets 1 through 12 of 12, prepared by Building Drops, Inc., dated September 28, 2009, last revision B dated March 22, 2012, signed & sealed by Hermes F. Norero, P.E., on April 16, 2012, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA #11-0621.02 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

Hely A. Nelo-08/09/2012

NOA No. 12-0426.10 Expiration Date: 05/06/2015 Approval Date: 08/09/2012 Page 1

Gulfstream Aluminum and Shutter Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0411.11

A. DRAWINGS

1. Drawing No. 1001, titled "Impact Bahama Shutter", prepared by W. W. Schaefer Engineering & Consulting, P.A., dated November 17, 2000, sheets 1 through 10 of 10, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

- 1. Test Report on: 1) Large Missile Impact Test, per PA-201
 - 2) Cyclic Wind Pressure Test, per PA-203 and
 - 3) Uniform Static Air Pressure test per PA-202, of Bahama shutters, prepared by Hurricane Test Laboratory Inc., Report No. 0205-1203-99, dated February 28, 2000, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

 Anchor analysis and calculations dated 03/29/2000, Pages 1 to 14, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

D. MATERIAL CERTIFICATION

1. Certified Tensile Test Report No. 0AM-142, prepared by QC Metallurgical Inc., dated 03/02/2000, per ASTM E8-93, signed and sealed by Frank Grate, P.E.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-0325.01

A. DRAWINGS

1. Drawing No. 1001, titled "Impact Bahama Shutters", sheets 1 through 10 of 10, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated November 17, 2000, signed and sealed by Warren W. Schaefer, P.E. on March 18, 2004

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. OUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No. 12-0426.10

Expiration Date: 05/06/2015 Approval Date: 08/09/2012

Gulfstream Aluminum and Shutter Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0706.10

A. DRAWINGS

1. Drawing No. GSA001, titled "Aluminum Bahama Shutter (Impact)", sheets 1 through 12 of 12, prepared by Certworks, LLC, dated September 28, 2009, last revision #A dated January 20, 2010, signed and sealed by Kristina S. Daugherty, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor analysis and calculations dated 09/28/2009, Pages 1 to 18, prepared by Certworks, LLC, signed and sealed by Kristina S. Daugherty, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0621.02

A. DRAWINGS

1. Drawing No. GSA001, titled "Aluminum Bahama Shutter (Impact)", sheets 1 through 12 of 12, prepared by Certworks, LLC, dated July 12, 2011, signed and sealed by Alexis Spyrou, P.E., on July 19, 201.

B. TESTS

1. Test Report on: 1) Large Missile Impact Test, per PA-201, 2) Cyclic Wind Pressure Test, per PA-203 and 3) Uniform Static Air Pressure test per PA-202, of Bahama shutters, prepared by Hurricane Test Laboratory Inc., Report No. 0205-0104-11, dated May 17, 2011, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

By Miami-Dade County Building and Neighborhood Compliance Department.

E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S.

Product Control Unit Supervisor

NOA No. 12-0426.10

Expiration Date: 05/06/2015 Approval Date: 08/09/2012

Gulfstream Aluminum and Shutter Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing # GSA001, titled "Aluminum Bahama Shutter (Impact)", sheets 1 through 12 of 12, prepared by Building Drops, Inc., dated September 28, 2009, last revision B dated March 22, 2012, signed & sealed by Hermes F. Norero, P.E., on April 16, 2012.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor analysis and calculations dated 04/16/2012, Pages 1 to 18, prepared by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No. 12-0426.10 Expiration Date: 05/06/2015

Approval Date: 08/09/2012

- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL
 INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE
 IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR
 JOINT INTO FACE SHELL OF BLOCK.
- 4. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- 5. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD MINIMUM SPECIFIC GRAVITY OF 0.55.
 - B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - C. MASONRY STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
- 6. EACH SHUTTER SHALL HAVE A LEGIBLE & READILY VISIBLE MARKING INSTRUCTING THE OWNER/TENANT TO SECURE THE SHUTTER WITH BRACKETS & STORM BARS, PER THESE APPROVED DRAWINGS DURING PERIODS OF HURRICANE WARNING.
- 7. EACH SHUTTER SHALL BE PERMANENTLY MARKED AS FOLLOWS:
 GULFSTREAM ALUMINUM & SHUTTER CORP.
 STUART, FL
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

GULFSTREAM ALUMINUM & SHUTTER CORP.

ALUMINUM BAHAMA SHUTTER (IMPACT)

GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2010 FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- 2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- 5. SHUTTER MATERIAL: ALUMINUM 6063-T6
- THESE SHUTTER SYSTEMS HAVE BEEN TESTED, ANALYZED &
 APPROVED FOR WIND PRESSURES NOT TO EXCEED THOSE
 SHOWN IN THE LOAD TABLES ON SHEET 12.

	-					
TABLE OF CONTENTS						
SHEET	REVISION	SHEET DESCRIPTION				
1	В	INSTALLATION & GENERAL NOTES				
2	A	ELEVATIONS				
3	Α	ELEVATIONS				
4	A	VERTICAL SECTIONS				
5	Α	VERTICAL SECTIONS				
6	В	VERTICAL SECTIONS				
7	В	VERTICAL SECTIONS				
8	Α	HORIZONTAL SECTIONS & DETAILS				
9	Α	DETAILS				
10	В	BILL OF MATERIALS & COMPONENTS				
11	В	COMPONENTS				
12	A	PRESSURE LOAD TABLES				

MAX. DESIGN PRESSURE RATING							
+80.0 / -80.0 PSF	SMALL AND LARGE						

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 2-9476.10
Expiration Date 05/06/2015

DWN BY:
JLR
CHK BY:
KSD
SCALE:
ATE

Gullstream

GULESTREAM ALUMINUM &

SHUTTER CORPORATION

5TUART, FLORIDA 34997 PH: (800) 244-4143 FX: (772) 287-9740

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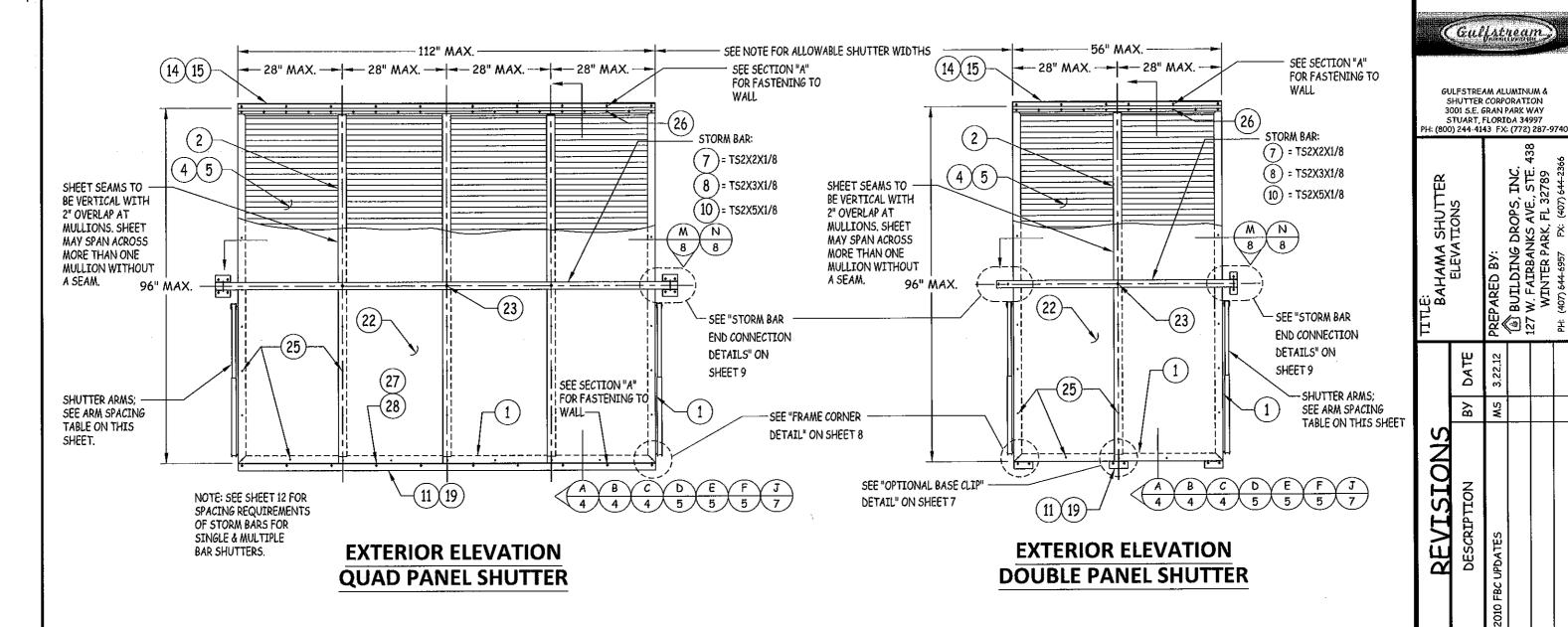
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DATE

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GSA001

EET: 1 OF12



NOTE: THE NUMBER OF PANELS IS GOVERNED BY:

1. IF STORM BARS ARE REQUIRED, ANY NUMBER OF PANELS MAY BE USED PROVIDING THE OVERALL SHUTTER WIDTH DOES NOT EXCEED 112" & THE PANEL WIDTHS DO NOT EXCEED 28".

2. IF NO STORM BARS ARE REQUIRED, ANY NUMBER OF PANELS MAY BE USED & THE SHUTTER OVERALL WIDTH MAY BE INFINITE PROVIDING THE PANEL WIDTHS DO NOT EXCEED 28".

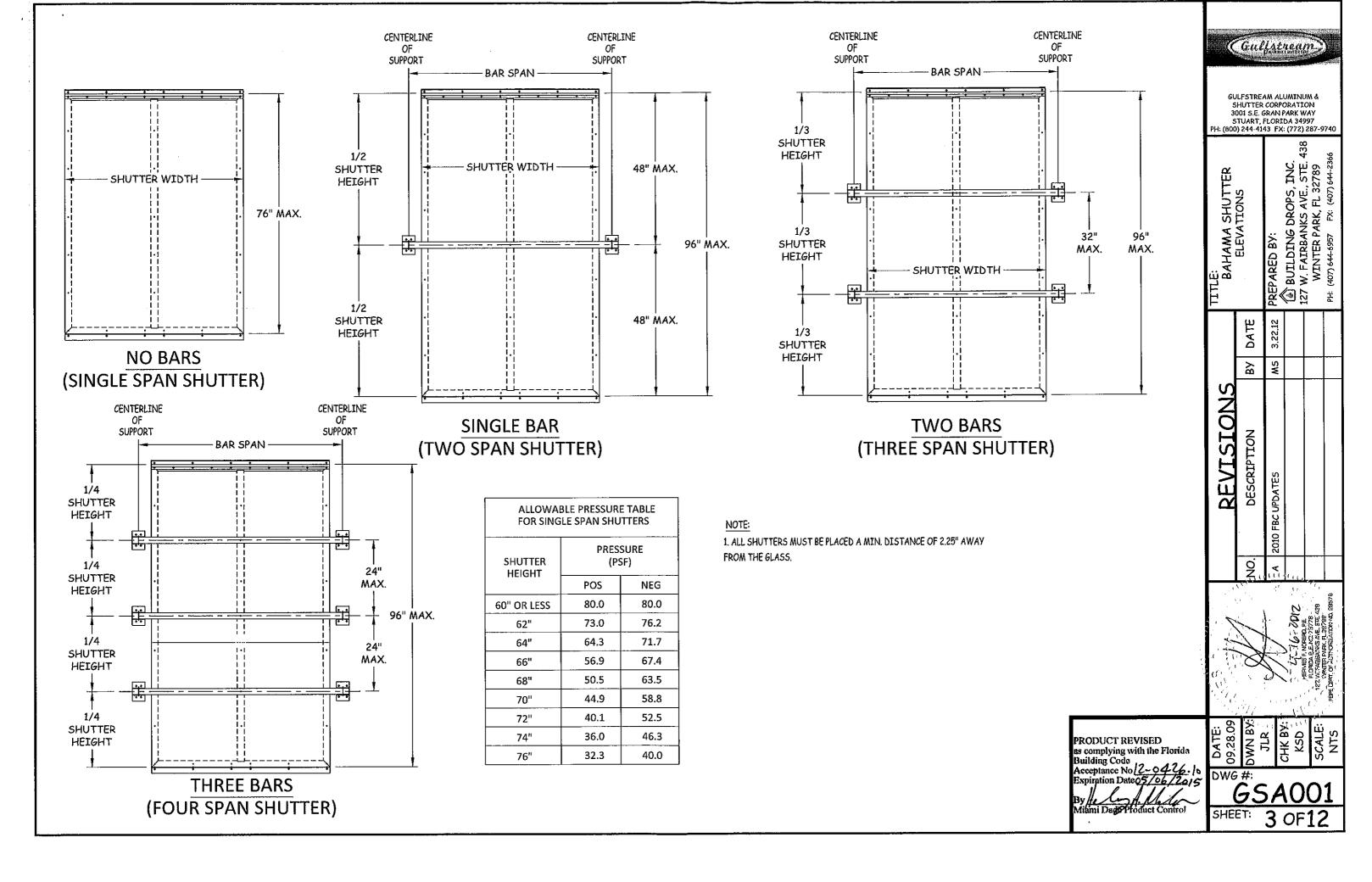
STORM BAR NOTE: THE NUMBER OF STORM BARS REQUIRED WITH EACH SHUTTER TYPICALLY VARIES FROM 1 TO 3 & IS DEPENDENT ON SHUTTER SIZE & REQUIRED DESIGN PRESSURE. SEE ELEVATION SKETCHES & LOAD TABLES ON SHEET 12 FOR STORM BAR REQUIREMENTS.

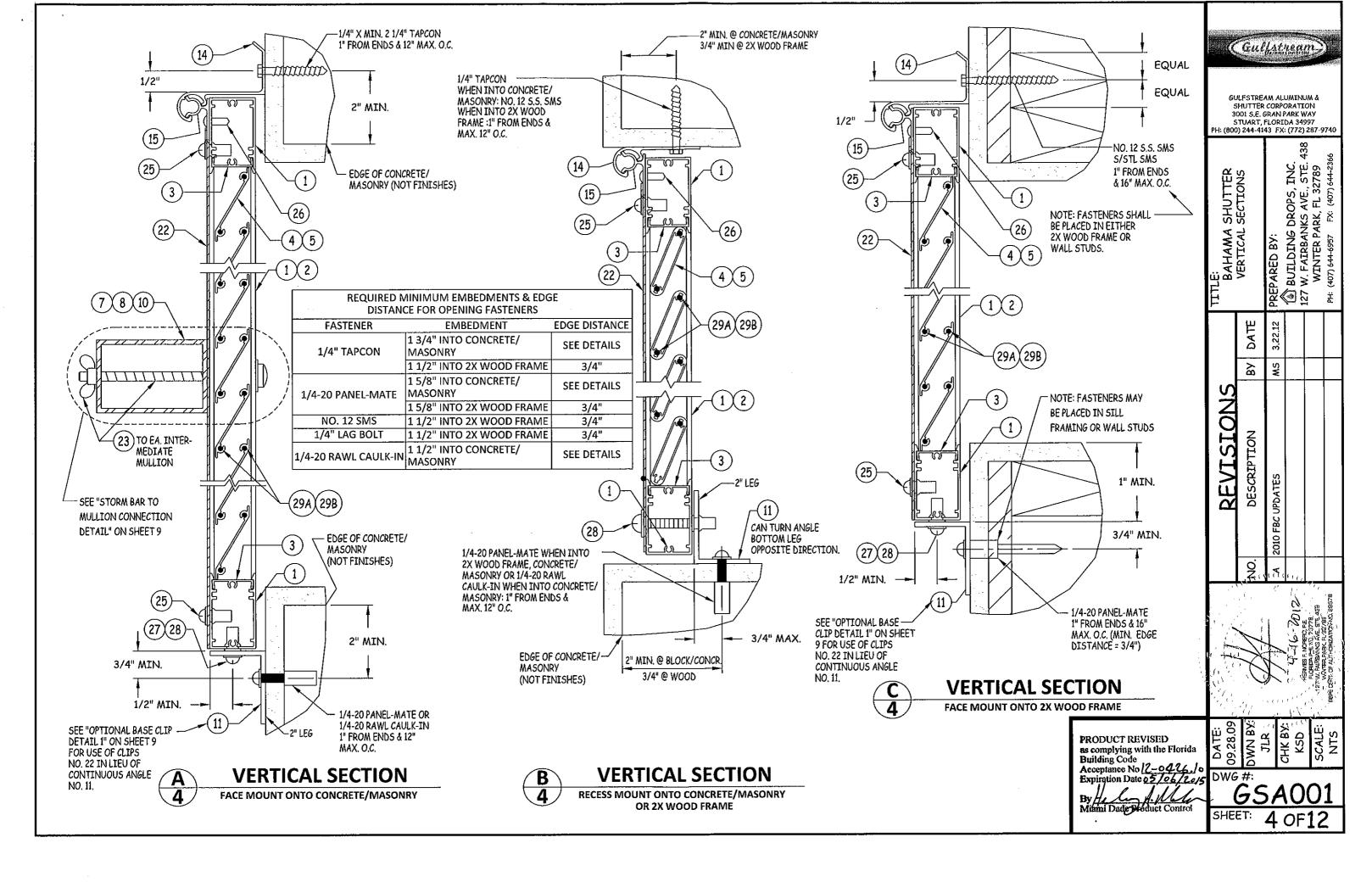
ARM SPACING TABLE							
SHUTTER HEIGHT MAXIMUM SPACING							
48" OR LESS	56"						
49" < h < 60"	45"						
61" < h < 72"	38"						
73" < h < 84"	32"						
85" < h < 96"	28"						

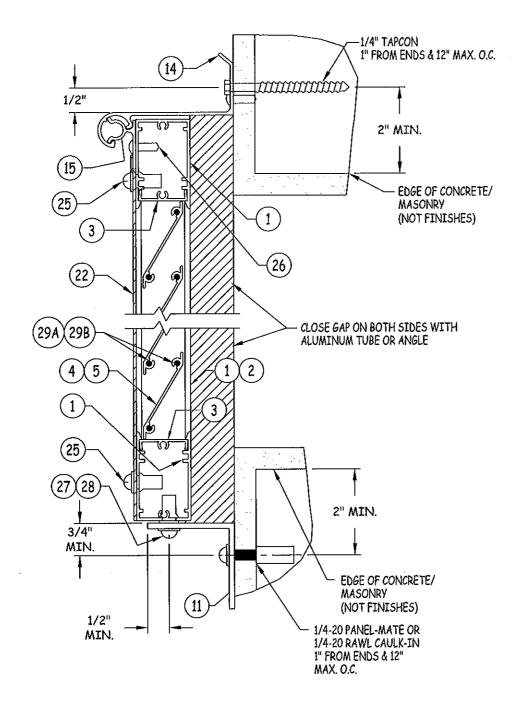
NOTE: ALL 2 PANEL SHUTTERS REQUIRE ONLY 1 ARM AT EACH SIDE

DATE: 09.28.09 PRODUCT REVISED as complying with the Florida Building Code
Acceptance No/2-0426. o
Expiration Date 05/06/20/5 DWG#: By fe Land Milami Dado Product Control

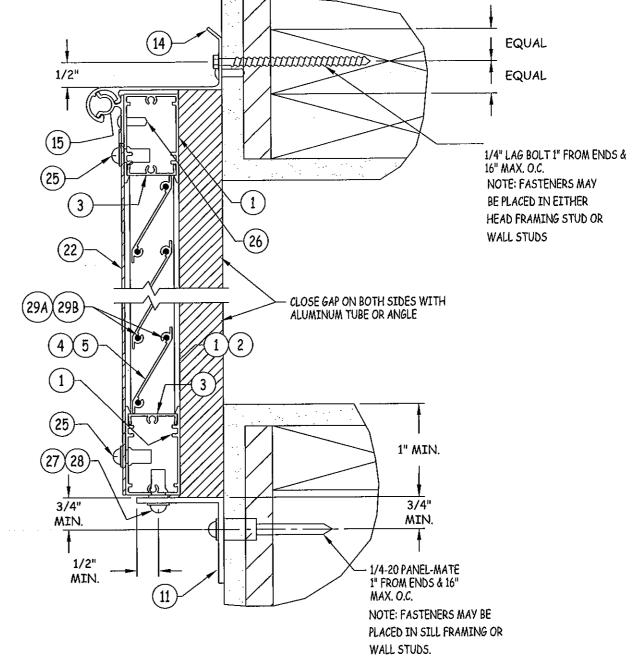
BUILDING DROPS, I W. FAIRBANKS AVE., S WINTER PARK, FL 32'











VERTICAL SECTION BUILD-OUT MOUNT ONTO 2X WOOD FRAME

FOR FASTENER EDGE DISTANCE & SPACING REQUIREMENTS, SEE SHEET 4.

PRODUCT REVISED
as complying with the Florida
Building Code Acceptance No 2-0426.16 DWG #:

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GULFSTREAM ALUMINUM &

SHUTTER CORPORATION 3001 S.E. GRAN PARK WAY STUART, FLORIDA 34997 PH: (800) 244-4143 FX: (772) 287-9740

SHUTTER SECTIONS

BAHAMA VERTICAL

DATE

8

DESCRIPTION

REVISION

MS

UPDATES

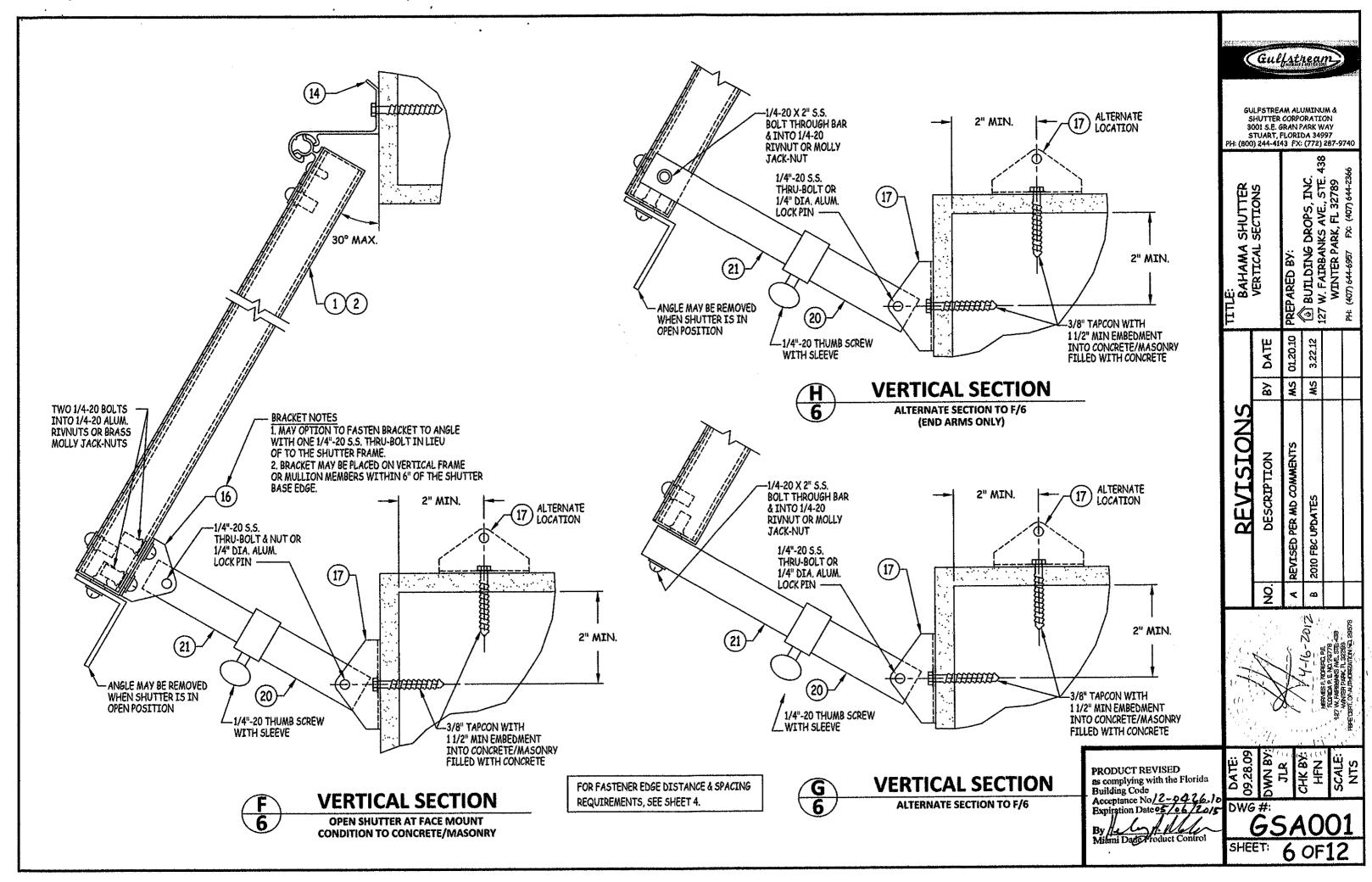
2010 FBC

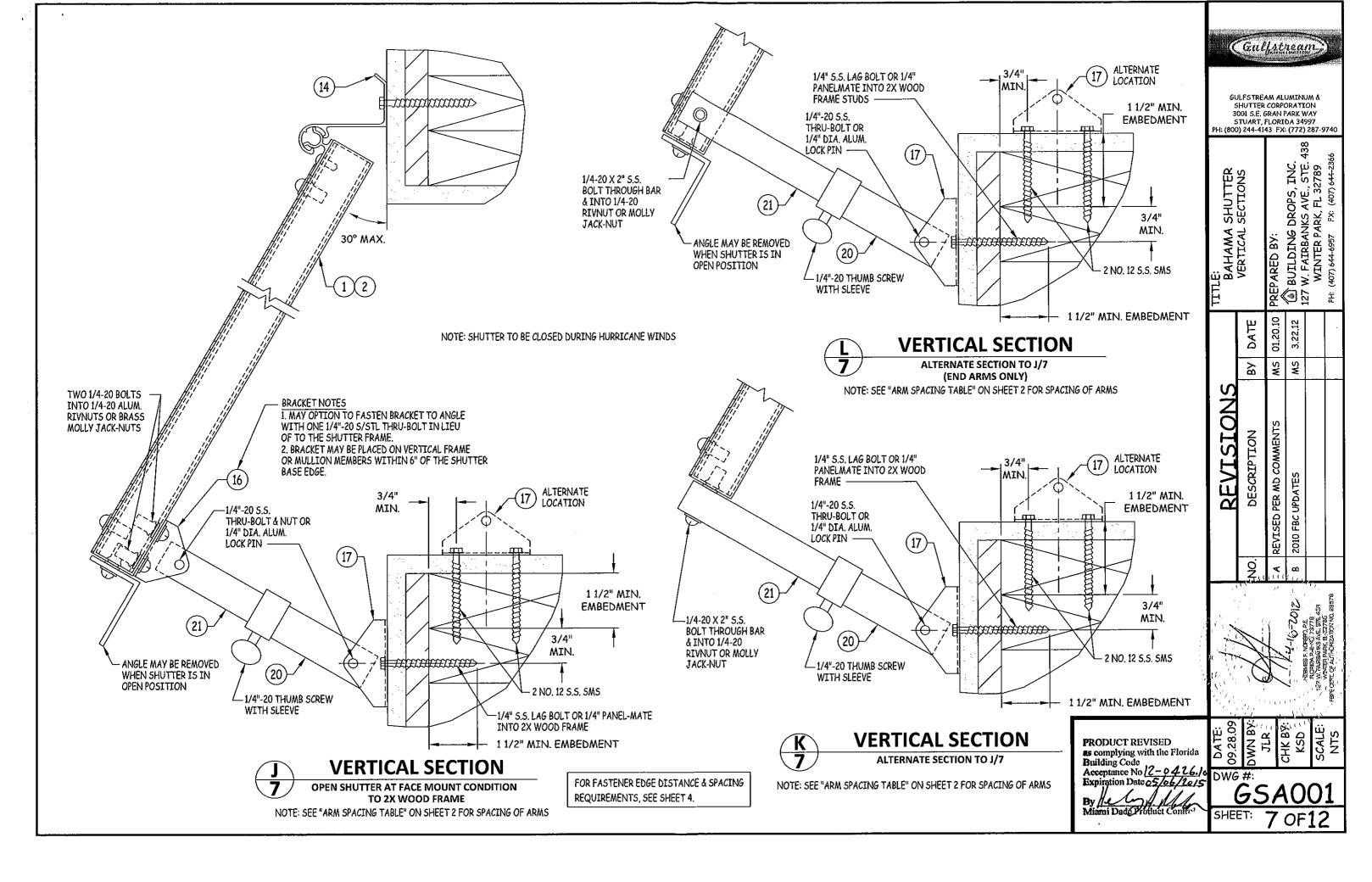
BUILDING DROPS, INC.
7 W. FAIRBANKS AVE., STE. 43:
WINTER PARK, FL 32789
: (407) 644-6957 FX: (407) 644-2366

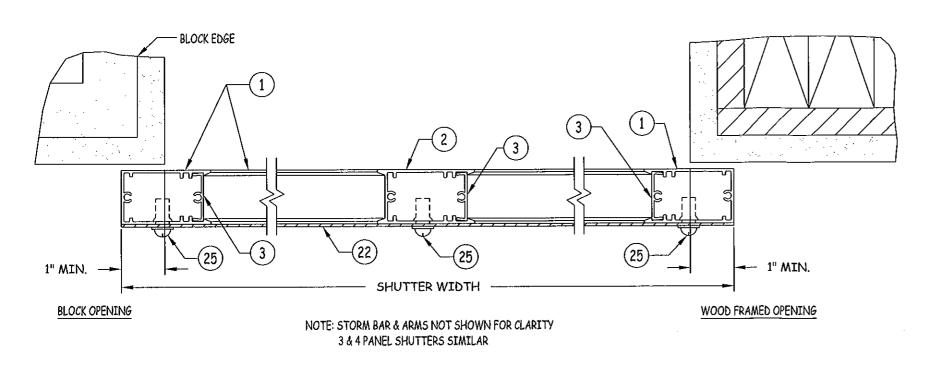
PREPARED BY:

B BUILDING
127 W. FAIRBAN

SHEET:

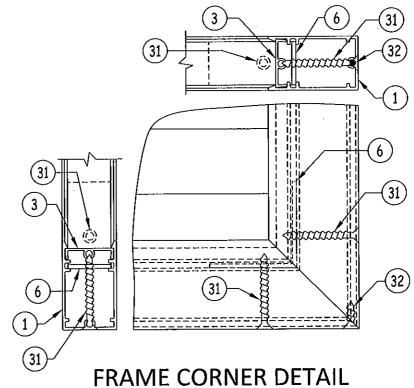


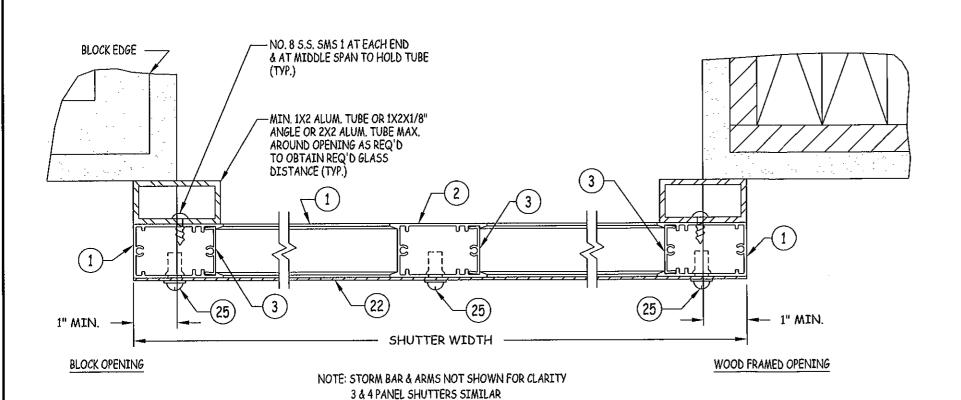


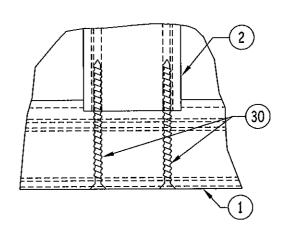


HORIZONTAL SECTION

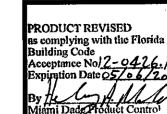
FLUSH MOUNT







MULLION END CONNECTION DETAIL



Callstream

GULFSTREAM ALUMINUM & SHUTTER CORPORATION 3001 S.E. GRAN PARK WAY STUART, FLORIDA 34997

PH: (800) 244-4143 FX: (772) 287-9740

DATE

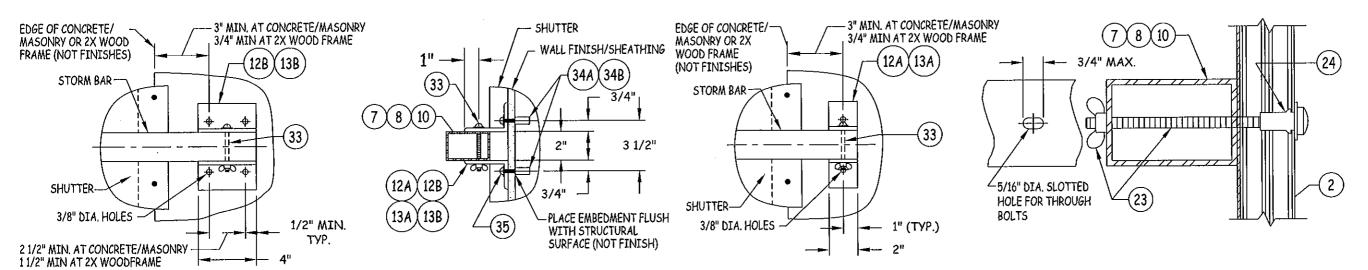
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DESCRIPTION

DWG#:

HORIZONTAL SECTION

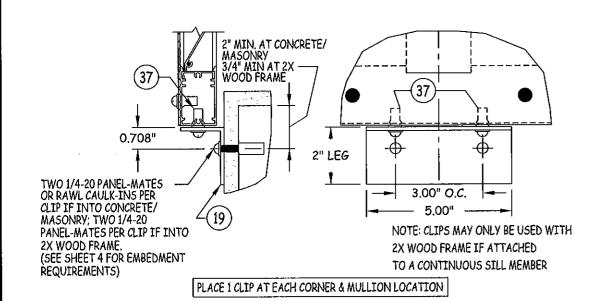
BUILD-OUT



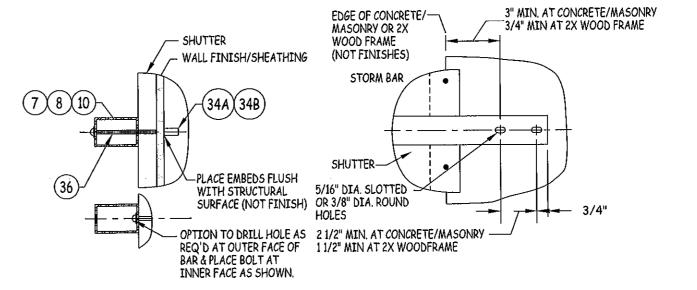
STORM BAR END CONNECTION DETAIL "A"

STORM BAR END CONNECTION DETAIL "B"

STORM BAR TO MULLION CONNECTION DETAIL



OPTIONAL BASE CLIP DETAIL 1



STORM BAR END CONNECTION "C"

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PRODUCT REVISED as complying with the Florida Building Code Acceptance No [2-0476.]	DATE:	09.28.09	DWN BY:	JLR	CHK BY:	KSD
Acceptance No (C-04 C6.) o Expiration Date 05/06/2015 By L. H. M.	D۷	vG (5/	4(0
Mini Dad Product Control	Sŀ	1EE	T:	9	С	F

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GULESTREAM ALUMINUM &

SHUTTER CORPORATION

3001 S.E. GRAN PARK WAY

STUART, FLORIDA 34997 PH: (800) 244-4143 FX: (772) 287-9740

BUILDING DROPS

W. FAIRBANKS AVE

WINTER PARK, FL 3

(407) 644-6957 FX: (407)

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PREPARED E

MS

TITLE: BAHAMA SHUTTER DETAILS

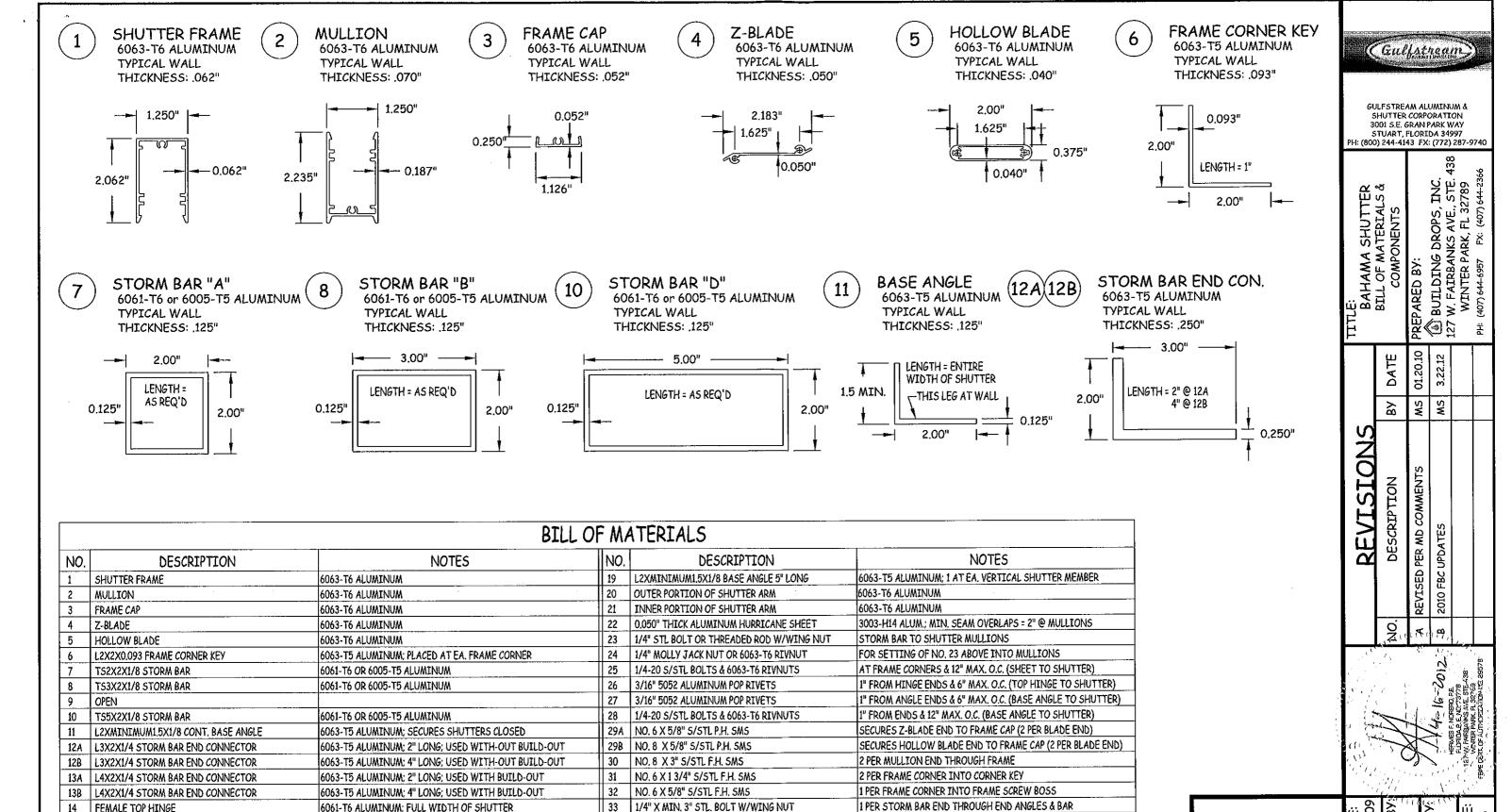
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B

DESCRIPTION

SION

REVI



34A 1/4-20 RAWL CAULK-IN

1/4-20 STEEL BOLT

34B 1/4-20 MALE OR FEMALE PANEL MATE

37 1/4-20 S/STL BOLTS & 6063-T6 RIVNUTS

35 1/4" STL BOLT OR THREADED ROD W/ WINGNUT

6061-T6 ALUMINUM; FULL WIDTH OF SHUTTER

6063-T6 ALUMINUM: ARM TO WALL BRACKET

6063-T6 ALUMINUM; ARM TO SHUTTER BRACKET

15

17

18

OPEN

MALE TOP HINGE

SHUTTER ARM SUPPORT BRACKET

SHUTTER ARM SUPPORT BRACKET

EMBED FULL ANCHOR BODY INTO BLOCK/CONCR.

ANCHORS STORM BAR ENDS TO WALL ANCHORS

2 PER BASE CLIP INTO SHUTTER FRAME

EMBED 1 1/2" INTO WOOD & MIN. 1 1/4" INTO BLOCK

ANCHORS STORM BAR END CLIPS TO WALL ANCHORS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 2-0426./o
Expiration Dateo 5/06/20/5
By Hell Hell
Miami Dade Product Control

DATE:

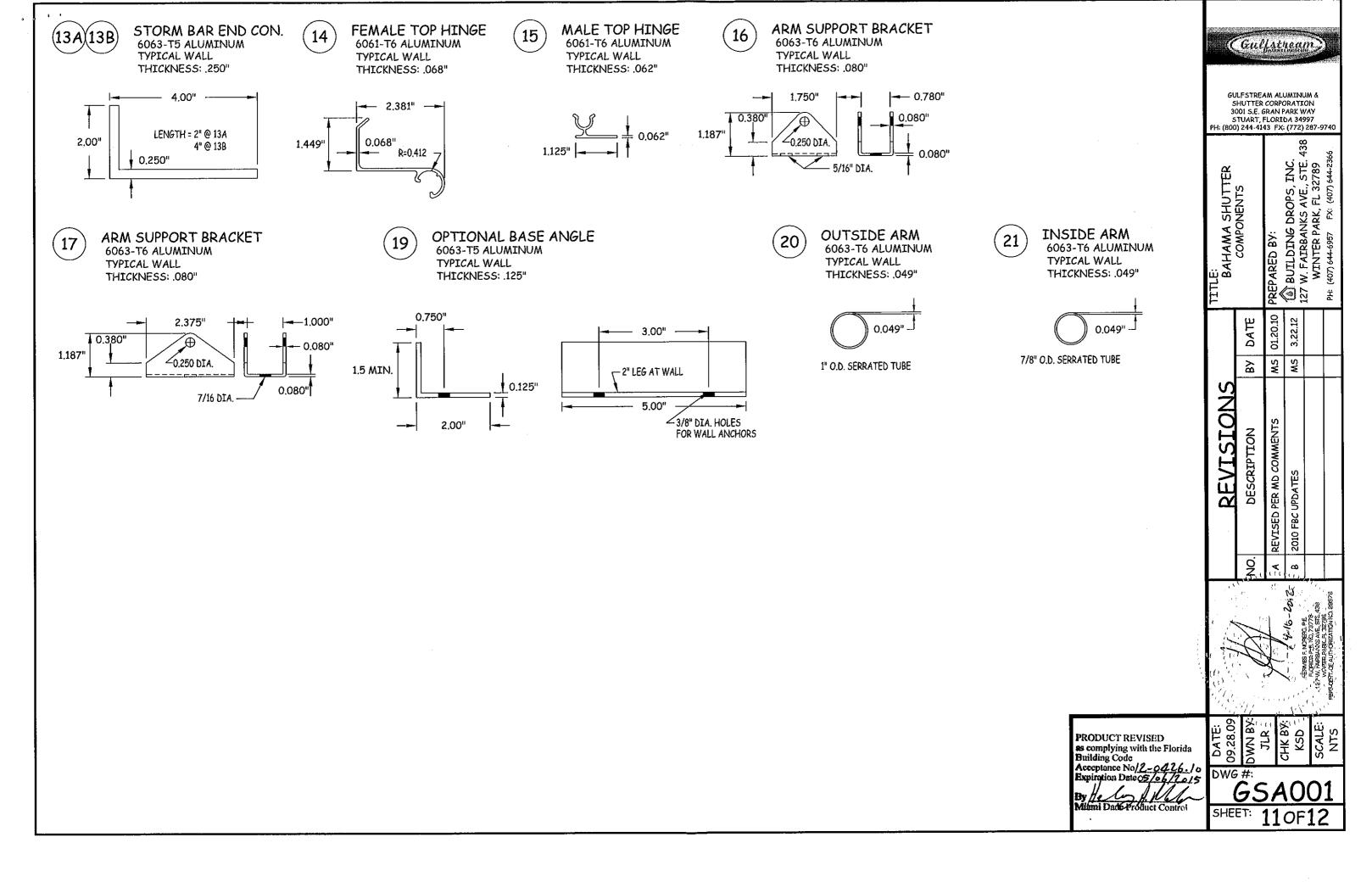
BOWN BY

JILR

CHK BY

KSD

SCALE:



	PRES:	SURE LOAD T	ABLE FOR ST	ORM BARS	& BAR END CONNE	CTIONS		
		ALLOWABL	E PRESSURE	S (PSF) AS	ALLOWABLE P	RESSURES	(PSF) AS	
Shutter	Bar	CONTROLLED BY BARS			CONTROLLED BY CONNECTIONS			
Width	Spacing	Connection "A" Conn			Connection	on "B" & "C"		
(in)	(in)	T\$2x2x1/8	TS3x2x1/8	TS5x2x1/8	Wood/Concrete/ Masonry	Wood Concrete Masonr		
	42	80	80	80	80	80	60	
36	48	80	80	80	80	80	53	
	36	80	80	80	80	80	60	
42	42	74	80	80	80	80	52	
42	48	65	80	80	80	71	45	
<u>-</u> .	30	80	80	80	80	80	63	
	36	70	80	80	80	80	53	
48	42	60	80	80	80	71	45	
	48	52	80	80	80	62	40	
	30	69	80	80	80	80	56	
	36	57	80	80	80	74	47	
54	42	49	80	80	80	63	40	
	48	43	80	80	73	55	35	
				_	80	80	63	
	24	72	80	80	80	80	51	
CO	30	58	80	80	80	67	42	
60	36	48	80	80			36	
	42	41	80	80	75	57	32	
	48	36	80	80	66	50		
	24	54	80	80	80	80	58	
	30	43	80	80	80	73	46	
66	36	36	73	80	79	61	38	
	42	31	63	80	68	52	33	
	48	27	55	80	60	45	29	
	24	40	94	80	80	80	53	
	30	32	76	80	80	67	42	
72	36	27	63	80	73	55	35	
	42		54	80	62	48	30	
	48	-	47	80	55	42	26	
	24	30	81	80	80	77	49	
	30	-	65	80	80	61	39	
78	36	· ·	54	80	67	51	32	
	42	-	46	80	58	44	28	
	48	-	41	80	50	38	24	
	24		62	80	80	71	45	
84	30	-	50	80	75	57	36	
	36		42	80	62	48	30	
	42	-	36	80	53	41	26	
	48	-	31	80	47	36	23	
	24	-	49	80	80	67	42	
	30		39	80	70	53	34	
90	36	-	32	80	58	44	28	
	42	<u> </u>	28	80	50	38	24	
	48	l <u>-</u>	-	80	44	33	21	

^{1.} ALL PRESSURES ARE FOR BOTH POSITIVE & NEGATIVE AND ARE PSF.

PRESSURE LOAD TABLE FOR STORM BARS & BAR END CONNECTIONS								
ALLOWABLE PRESSURES (PSF) AS				ALLOWABLE PRESSURES (PSF) AS				
Shutter	Bar	CONT	ROLLED BY I	BARS	CONTROLLED BY CONNECTIONS			
Width	Spacing	Connection "A" Connection "B					on "B" & "C"	
(in)	(in)	TS2x2x1/8	TS3x2x1/8	T\$5x2x1/8	Wood/Concrete/	Wood	Concrete/	
!					Masonry		Masonry	
	24		39	80 -	80	62	40	
	30	-	31	80	66	50	32	
96	36	_	26	80	55	42	26	
	42	-	-	70	47	36	23	
	48	-	-	62	41	31	20	
	24	•	31	110	77	59	37	
102	30		25	88	62	47	30	
	36	-	-	74	51	39	25	
	42	•	-	63	44	34	21	
	48	-	-	55	39	29	-	
	24	-	-	91	73	55	35	
	30		-	73	58	44	28	
108	36		-	61	.49	37	23	
	42		-	52	42	32	20	
	48	-		46	36	28		
112	24	-	<u> </u>	80	70	53	34	
	30		-	64	56	43	27	
	36	-	-	53	47	36	23	
	42	-	-	46	40	31	19	
	48	-	-	40	35	27		

LOAD TABLE INSTRUCTIONS:

- 1. SELECT AN OVERALL SHUTTER SIZE (TOTAL WIDTH & HEIGHT).
- 2. DETERMINE THE REQUIRED DESIGN WIND PRESSURE FOR THE SHUTTER (OBTAIN FROM A FLORIDA REGISTERED ENGINEER).
- 3. IF THE SHUTTER HEIGHT IS LESS THAN OR EQUAL TO 76", GO TO "PRESSURE TABLE FOR SINGLE SPAN SHUTTERS" ON SHEET 9 AND COMPARE THE REQUIRED DESIGN PRESSURE TO THE ALLOWABLE PRESSURES IN THE TABLE. IF ALLOWABLE PRESSURE IS EQUAL TO OR GREATER THAN THAT REQUIRED, NO BAR IS REQUIRED & YOU ARE FINISHED. IF ALLOWABLE PRESSURE IS LESS THAN REQUIRED, STORM BAR(S) ARE NEEDED, SO CONTINUE TO NUMBER 4 BELOW.
- 4. IF BARS ARE REQUIRED, GO TO LOAD TABLES ON THIS SHEET.
- 5. GO TO APPLICABLE SHUTTER WIDTH IN TABLE AND CHOOSE THE DESIRED BAR SPACING.
- 6. GO ACROSS THE TABLE AND CHOOSE THE BAR AND CONNECTION WHO'S ALLOWABLE PRESSURE IS GREATER THAN OR EQUAL TO THE REQUIRED PRESSURE. IF THE DESIRED BAR AND/OR CONNECTION TYPE DOES NOT MEET THE REQUIRED SHUTTER DESIGN PRESSURE, CHOOSE ANOTHER BAR SPACING AND CHECK THE BAR TYPE & CONNECTION AGAIN. REPEAT UNTIL DESIRED & CORRECT BAR
- & CONNECTION TYPE ARE DETERMINED (NOTE THAT THE LESSER PRESSURE OF THE BAR, CONNECTION TYPE, OR MAXIMUM ALLOWABLE OF +/-80 PSF SHALL CONTROL THE SHUTTER).

GSA0

Callstream.

SHUTTER CORPORATION
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STUART, FLORIDA 34997
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DATE

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PRODUCT REVISED
as complying with the Florida
Building Code Acceptance No 2-04-26./o Expiration Date 05/06/2015

^{2,} REF. SHEET 9 FOR CONNECTION TYPES.